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Flux tubes and quark confinement in QCD

Wednesday, 21 December 2022 12:00 (30 minutes)

The quark confinement in QCD is well established both experimentally and by the numerical lattice simulations showing a linearly growing quark-antiquark potential. The confinement is further evidenced by the chromoelectric field between a static quark-antiquark pair concentrating in a tube-like structure called a flux tube.
This talk is a review of the recent results establishing the spatial structure of the flux tubes both in pure gauge theories and in QCD with dynamical quarks and the insights that these results can bring to understanding confinement.

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